IAP3 Rec'd PCT/PTO 20 DEC FORM PTO-1390 US DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE ATTORNEY'S DOCKET NUMBER (REV. 01-2003) 125413 TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (If known, see 37 CFR 1.5) DESIGNATED/ELECTED OFFICE (DO/EO/US) 10/549,510 **CONCERNING A FILING UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/JP2004/004432 March 29, 2004 March 28, 2003 TITLE OF INVENTION T-TYPE CALCIUM CHANNEL BLOCKER APPLICANTS FOR DO/EO/US Yukinori MASUDA; Taiji FURUKAWA Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 1. 2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. The US has been elected (Article 31). 5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. 

 is attached hereto (required only if not communicated by the International Bureau).
 b. has been communicated by the International Bureau. c. I is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) a. 

 is attached hereto. b. has been previously submitted under 35 U.S.C. 154(d)(4). The International Application was filed in English. 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) have been communicated by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired.

U.S. APPLICATION NO. (if known, see 10/549,510	· ·	INTERNATIONAL APPLICA PCT/JP2004/004432	TION NO.	ATTORNEY'S DOCKET NUMBER 125413					
21.  The following fees are		1 01/31 2004/004432		CALCU	PTO USE ONLY				
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BASIC NATIONAL FEE (37 C			\$ 300.00	\$					
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International preliminary examination report or written opinion prepared by the USPTO as IPEA or ISA and favorable as to novelty, inventive step, and industrial applicability for all claims presented in the application entering the national stage									
International search fee (37 CF	FR 1.445(a)(2)) pa	aid to USPTO as ISA	\$ 100.00						
International search report protein the search fee is paid	vided to USPTO r	no later than the time a	t which \$ 400.00						
All situations not provided for a	above		\$ 500.00						
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accompanied by an appropriate	e cover sheet (37	CFR 3.28, 3.31). <b>\$40</b>	.00 per property +	"					
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Yukinori MASUDA et al.

Application No.: 10/549,510

Filed: September 20, 2005 Docket No.: 125413

For: T-TYPE CALCIUM CHANNEL BLOCKER

## **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- 2. Relevance of references 2-8 and 11-20 is discussed in the present specification.
- 3. References 10-11 were cited in the International Search Report. An English language version of the International Search Report is attached for the Examiner's information.
- 4. In accordance with 37 CFR §1.98(a)(2)(ii), copies of any U.S. patents and patent application publications are not attached.
- 5. English language Abstracts of the non-English language references are attached hereto.
- 6. Reference 9 corresponds to JP-A-05-194393, which is cited on the International Search Report; a copy of the Japanese language reference is not attached.

Respectfully submitted,

James A. Oliff

Registration No. 27,075

Jesse O. Collier

Registration No. 53,839

JAO:JOC/nxy

Date: December 20, 2005

OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, Virginia 22320 Telephone: (703) 836-6400 DEPOSIT ACCOUNT USE AUTHORIZATION

Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461

Form PTO-1449 US Dept. of Commerce (REV. 8-83) PATENT & TRADEMARK OFFICE			ATTY DOCKET NO. 125413			APPLICATION NO. 10/549,510				
INFORMATION DISCLOSURE STATEMENT										
(Use several sheets if necessary)			APPLICANTS Yukinori MASUDA et al.							
			FILING DATE			GROUP				
	U.S.	PATEN	NT DOCU	MENTS	1					
	DOCUMENT NUMBER	D.	ATE	NAME		-	CLASS	SUB CLASS		
1.	4,885,284	12/05	/1989	Kiyotomo SETO et al.						
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FOREIGN PATENT DOCUMENTS										
	DOCUMENT NUMBER	D.	DATE COUNTRY			CLASS	SUB CLASS			
2.	JP-A-61-030591 w/ abst.	02/12	2/1986	JAPAN						
3.	JP-A-60-069089 w/ abst.	04/19	/1985	JAPAN						
4.	JP-A-01-275591 w/ abst.	11/06	5/1989	JAPAN						
5.	JP-A-61-063688 w/ abst.	04/01	/1986	JAPAN						
6.	JP-A-63-233992 w/ abst.	09/29	/1988	JAPAN						
7.	JP-A-62-169795 w/ abst.	07/25	5/1987	JAPAN						
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	OTHER DOCUMENTS (Inc	cluding	Author, 7	Γitle, Date, Pertinent Page	s, etc.)					
11.	Haruko MASUMIYA et al.; "Effects of Ca <sup>2+</sup> channel antagonists on sinus node: Prolongation of late phase 4									
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12.	Paul MULDER et al.; "Increased Survival After Long-Term Treatment with Mibefrafil, a Selective T-Channel Calcium						Calcium			
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	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	PATENT & TRADEMARK OFFICE  RMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)  U.S.  DOCUMENT NUMBER  1. 4,885,284  FOREIC  DOCUMENT NUMBER  2. JP-A-61-030591 w/ abst.  3. JP-A-60-069089 w/ abst.  4. JP-A-01-275591 w/ abst.  5. JP-A-61-063688 w/ abst.  6. JP-A-63-233992 w/ abst.  7. JP-A-62-169795 w/ abst.  8. JP-A-62-169796 w/ abst.  9. EP 0 500 426 A1  10. WO 01/04124 A1  OTHER DOCUMENTS (Inc.  11. Haruko MASUMIYA et al.; "Effects of depolarization by efonidipine"; Europe.  12. Paul MULDER et al.; "Increased Surv.  Antagonist, in Heart Failure"; JACC; V.  13. Johanne VILLAME et al.; "Effects of the UM-X7.1 Cardiomyopathic Hamst.  14. Samir FAREH et al.; "The T-Type Carfibrillation by Tachycardia-Induced A	### PATENT & TRADEMARK OFFICE  ###################################	### PATENT & TRADEMARK OFFICE  ### CMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)  ### APPLICATURE    Comparison	### PATENT & TRADEMARK OFFICE  ### PATENT & TRADEMARK OFFICE  ### PATENT & TRADEMARK OFFICE  ### PATENT DOCUMES STATEMENT	### PATENT & TRADEMARK OFFICE  ### PATENT & TRADEMARK OFFICE  ### PLICANTS	PATENT & TRADEMARK OFFICE   125413	PATENT & TRADEMARK OFFICE   125413		

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)										
	15.	Georg NOLL et al.; "Comparative Phra		_		Channel Blo	ckers: 7	Γ-Channel v	ersus L-	
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	16.	Chris BAYLIS et al.; "Comparison of	L-Ty	ype and Mixed L- and T-Type Calcium Channel Blockers on Kidney Injury						
		Caused by Deoxycorticosterone-Salt Hypertension in Rats"; American Journal of Kidney Diseases; Vol. 38, No. 6; 2001;								
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	20.	20. Darrell M. PORCELLO et al.; "Actions of U-92032, a T-Type CA <sup>2+</sup> Channel Antagonist, Support a Functional Linl								
		Between I <sub>T</sub> and Slow Intrathalamic Rhythms"; Journal of Neurophysiology; Vol. 89; January 2003; pp. 177-185.							5.	
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		citation considered, whether or not ci					line th	rough citati	on if not in	
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